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(54) REACTION-CURRENT MEASURING METHOD BY ENZYME ELECTRODE

(57) Abstract:

PROBLEM TO BE SOLVED: To provide a reactioncurrent measuring method with measurement accuracy and satisfactory reproducibility, in which measuring time is shortened.

SOLUTION: Through the use of a three-electrode-type enzyme electrode, constituted of a working electrode, a reference electrode, and a counter electrode for measuring the concentration of a specific substance in a liquid to be tested. (a) it is detected that the liquid to be tested to be measured is dropped to the enzyme electrode, (b) an enzyme membrane of each electrode is made to swell, (c) a prescribed current is passed between the working electrode and the counter electrode to electrolyze moisture in the liquid to be tested, (d) a voltage is increased to the oxidation potential of hydrogen peroxide with time and impressed between the reference electrode and the working electrode, and held at the electrochemical oxidation potential for a predetermined time, and then a reaction current passing between the working electrode and the counter electrode is measured in the reaction current measuring method.

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